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 NEWS  7  DEC 21  IPC search and display fields enhanced in CA/CAplus with the
                  IPC reform
 NEWS  8  DEC 23  New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
                  USPAT2
 NEWS  9  JAN 13  IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
 NEWS 10  JAN 13  New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                  INPADOC

 NEWS EXPRESS  JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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FILE LAST UPDATED: 16 Jan 2006  (20060116/ED)

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=> s rhodium porphyrin
         67191 RHODIUM
            31 RHODIUMS
         67192 RHODIUM
                  (RHODIUM OR RHODIUMS)
         34445 PORPHYRIN
         24064 PORPHYRINS
         40529 PORPHYRIN
                  (PORPHYRIN OR PORPHYRINS)
L1         169 RHODIUM PORPHYRIN
                  (RHODIUM(W)PORPHYRIN)

=> s l1 and oxidation catalyst
        425964 OXIDATION
          4807 OXIDATIONS
        427215 OXIDATION
                  (OXIDATION OR OXIDATIONS)
        731786 OXIDN
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        733707 OXIDN
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        710356 CATALYST
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L2           5 L1 AND OXIDATION CATALYST

=> d 1-5

L2   ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2000:805885  CAPLUS
DN   134:56831
TI   Regioselective oxidations of equilenin derivatives catalyzed by a
     rhodium(III) porphyrin complex-contrast with the manganese(III) porphyrin
AU   Yang, Jerry; Breslow, Ronald
CS   Department of Chemistry, Columbia University, New York, NY, 10027, USA
SO   Tetrahedron Letters (2000), 41(42), 8063-8067
     CODEN: TELEAY; ISSN: 0040-4039
PB   Elsevier Science Ltd.
DT   Journal
LA   English
OS   CASREACT 134:56831
```

THIS PART OF SEARCH FOCUSED ON ONLY THE KNOWN UTILITIES OF Rh. PORPHYRIN CATALYSTS

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:705078 CAPLUS
DN 126:69184
TI Development of supramolecular metalloprotein mimics
AU Feiters, M. C.; Gebbink, R. J. M. Klein; Schenning, A. P. H. J.; van Strijdonck, G. P. F.; Martens, C. F.; Nolte, R. J. M.
CS Dep. Org. Chem., Univ. Nijmegen, Nijmegen, 6525 ED, Neth.
SO Pure and Applied Chemistry (1996), 68(11), 2163-2170
CODEN: PACHAS; ISSN: 0033-4545
PB Blackwell
DT Journal; General Review
LA English

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1987:438763 CAPLUS
DN 107:38763
TI Catalytic reactions of metalloporphyrins. 3. Catalytic modification of hydroboration-oxidation of olefins with rhodium(III) porphyrin as catalyst
AU Aoyama, Yasuhiro; Tanaka, Yasutaka; Fujisawa, Takeshi; Watanabe, Takamichi; Toi, Hiroo; Ogoshi, Hisanobu
CS Dep. Mater. Sci. Technol., Technol. Univ. Nagaoka, Nagaoka, 940-21, Japan
SO Journal of Organic Chemistry (1987), 52(12), 2555-9
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 107:38763

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1983:521857 CAPLUS
DN 99:121857
TI Efficient olefin oxygenation with tetrahydroborate and dioxygen catalyzed by a **rhodium porphyrin** complex
AU Aoyama, Yasuhiro; Watanabe, Takamichi; Onda, Hiroyuki; Ogoshi, Hisanobu
CS Dep. Mater. Sci., Technol. Univ. Nagaoka, Niigata, 949, Japan
SO Tetrahedron Letters (1983), 24(11), 1183-6
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1982:225242 CAPLUS
DN 96:225242
TI Selective electrooxidation of carbon monoxide with carbon-supported rhodium and iridium porphyrins at low potentials in acid electrolyte
AU Van Baar, J. F.; Van Veen, J. A. R.; De Wit, N.
CS K./Shell-Lab., Shell Res. B. V., Amsterdam, Neth.
SO Electrochimica Acta (1982), 27(1), 57-9
CODEN: ELCAAV; ISSN: 0013-4686
DT Journal
LA English

=> d is
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IND --------- Indexing data
IPC --------- International Patent Classifications
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FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
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=> d his

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FILE 'CAPLUS' ENTERED AT 08:05:25 ON 17 JAN 2006
L1 169 S RHODIUM PORPHYRIN
L2 5 S L1 AND OXIDATION CATALYST

=> s l1 not l2
L3 164 L1 NOT L2

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=> s l1 and superior and conventional
        144991 SUPERIOR
            11 SUPERIORS
        145001 SUPERIOR
                 (SUPERIOR OR SUPERIORS)
        360292 CONVENTIONAL
            17 CONVENTIONALS
        360303 CONVENTIONAL
                 (CONVENTIONAL OR CONVENTIONALS)
L4           0 L1 AND SUPERIOR AND CONVENTIONAL

=> s l1 and superior
        144991 SUPERIOR
            11 SUPERIORS
        145001 SUPERIOR
                 (SUPERIOR OR SUPERIORS)
L5           0 L1 AND SUPERIOR

=> s l1 and advantageous
         26567 ADVANTAGEOUS
L6           0 L1 AND ADVANTAGEOUS

=> s l1 and sulf?
       1679066 SULF?
L7          13 L1 AND SULF?

=> d 1-13

L7   ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2005:1171223  CAPLUS
TI   Thermodynamics of Rhodium Hydride Reactions with CO, Aldehydes, and
     Olefins in Water: Organo-Rhodium Porphyrin Bond
     Dissociation Free Energies
AU   Fu, Xuefeng; Wayland, Bradford B.
CS   Department of Chemistry, University of Pennsylvania, Philadelphia, PA,
     19104-6323, USA
SO   Journal of the American Chemical Society (2005), 127(47), 16460-16467
     CODEN: JACSAT; ISSN: 0002-7863
PB   American Chemical Society
DT   Journal
LA   English
RE.CNT  48    THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7   ANSWER 2 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:661765  CAPLUS
TI   Equilibrium thermodynamic studies for reactions of rhodium
     porphyrin hydride with CO, aldehydes and olefins in aqueous media
AU   Fu, Xuefeng; Wayland, Bradford B.
CS   Department of Chemistry, University of Pennsylvania, philadelphia, PA,
     19104, USA
SO   Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United
     States, August 22-26, 2004 (2004), INOR-600 Publisher: American Chemical
     Society, Washington, D. C.
     CODEN: 69FTZ8
DT   Conference; Meeting Abstract
LA   English

L7   ANSWER 3 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:354167  CAPLUS
DN   141:321728
TI   Spectral properties of cationic water-soluble metalloporphyrins
     immobilized in a perfluorosulfonated ion-exchange membrane
AU   Vasil'ev, Victor V.; Borisov, Sergey M.; Maldotti, Andrea; Molinari,
     Alessandra
CS   Department of Chemistry, Russian State Pedagogical University, St.
     Petersburg, 191186, Russia
SO   Journal of Porphyrins and Phthalocyanines (2003), 7(11 & 12), 780-786
     CODEN: JPPHFZ; ISSN: 1088-4246
PB   Society of Porphyrins & Phthalocyanines
DT   Journal
LA   English
RE.CNT  48    THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7   ANSWER 4 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:87921  CAPLUS
DN   140:310322
TI   Equilibrium Thermodynamic Studies in Water: Reactions of Dihydrogen with
     Rhodium(III) Porphyrins Relevant to Rh-Rh, Rh-H, and Rh-OH Bond Energetics
AU   Fu, Xuefeng; Wayland, Bradford B.
CS   Department of Chemistry, University of Pennsylvania, Philadelphia, PA,
     19104-6323, USA
SO   Journal of the American Chemical Society (2004), 126(8), 2623-2631
     CODEN: JACSAT; ISSN: 0002-7863
PB   American Chemical Society
DT   Journal
LA   English
RE.CNT  47    THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7   ANSWER 5 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2003:551347  CAPLUS
DN   139:111611
TI   Porphyrins with virucidal activity, and use in the treatment of sexually
     transmitted diseases
IN   Compans, Richard W.; Marzilli, Luigi G.; Sears, Amy E.; Dixon, Dabney W.
PA   Emory University, USA; Georgia State University Research Foundation, Inc.
SO   PCT Int. Appl., 62 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     --------------      ----   --------    -------------------      --------
PI   WO 2003057176       A2     20030717    WO 2003-US532            20030108
     WO 2003057176       A3     20040916
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2472583          AA     20030717    CA 2003-2472583          20030108
     EP 1480638          A2     20041201    EP 2003-708820           20030108
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 2005090428       A1     20050428    US 2003-500884           20030108
PRAI US 2002-347197P     P      20020108
     WO 2003-US532       W      20030108
OS   MARPAT 139:111611

L7   ANSWER 6 OF 13  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2003:183713  CAPLUS
TI   Aqueous organometallic reactions of rhodium porphyrins
```

AU Fu, Xuefeng; Wayland, Bradford B.
CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA
SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), INOR-670 Publisher: American Chemical Society, Washington, D. C.
CODEN: 69DSA4
DT Conference; Meeting Abstract
LA English

L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:107410 CAPLUS
DN 139:69353
TI Aqueous organometallic reactions of **rhodium porphyrins** : equilibrium thermodynamics
AU Fu, Xuefeng; Basickes, Leah; Wayland, Bradford B.
CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA
SO Chemical Communications (Cambridge, United Kingdom) (2003), (4), 520-521
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 139:69353
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:617757 CAPLUS
TI Anionic water-soluble β-octafluorinated porphyrins
AU Biffinger, Justin C.; Sun, Haoran; DiMagno, Stephen G.
CS Department of Chemistry, University of Nebraska, Lincoln, NE, 68588-0304, USA
SO Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United States, August 18-22, 2002 (2002), INOR-605 Publisher: American Chemical Society, Washington, D. C.
CODEN: 69CZPZ
DT Conference; Meeting Abstract
LA English

L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:330952 CAPLUS
TI Aqueous organometallic reactions of **rhodium porphyrins**
.
AU Basickes, Leah; Wayland, Bradford B.
CS Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA
SO Book of Abstracts, 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000 (2000), INOR-190 Publisher: American Chemical Society, Washington, D. C.
CODEN: 69CLAC
DT Conference; Meeting Abstract
LA English

L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:435602 CAPLUS
DN 129:144214
TI Behavior of rhodium(III) complexes with water-soluble porphyrins in solutions
AU Golovina, I. V.; Vasil'ev, V. V.
CS Gertsen State Pedagogical University, St. Petersburg, Russia
SO Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (1998), 24(6), 412-415
CODEN: RJCCEY; ISSN: 1070-3284
PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:705078 CAPLUS
DN 126:69184
TI Development of supramolecular metalloprotein mimics
AU Feiters, M. C.; Gebbink, R. J. M. Klein; Schenning, A. P. H. J.; van Strijdonck, G. P. F.; Martens, C. F.; Nolte, R. J. M.
CS Dep. Org. Chem., Univ. Nijmegen, Nijmegen, 6525 ED, Neth.
SO Pure and Applied Chemistry (1996), 68(11), 2163-2170
CODEN: PACHAS; ISSN: 0033-4545
PB Blackwell
DT Journal; General Review
LA English

L7 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:652383 CAPLUS
DN 119:252383
TI Reactions of metal ion complexes with lignin model compounds. Part III. Rh(TSPP) catalyzed formation of guaiacol from β-aryl ethers in exceptionally high yield
AU Watson, Paul A.; Wright, L. James; Fullerton, Terry J.
CS Dep. Chem., Univ. Auckland, Auckland, N. Z.
SO Journal of Wood Chemistry and Technology (1993), 13(3), 411-28
CODEN: JWCTDJ; ISSN: 0277-3813
DT Journal
LA English

L7 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1985:194962 CAPLUS
DN 102:194962
TI Radiolytic studies of the redox reactions and alkylation of rhodium tetrakis(4-**sulfonatophenyl**)porphyrin in aqueous solutions
AU Baral, S.; Hambright, P.; Harriman, A.; Neta, P.
CS Radiat. Lab., Univ. Notre Dame, Notre Dame, IN, 46556, USA
SO Journal of Physical Chemistry (1985), 89(10), 2037-42
CODEN: JPCHAX; ISSN: 0022-3654
DT Journal
LA English

=> d abs 9

L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
AB Reactions of rhodium porphryins with small mol. substrates in water were performed and the equilibrium consts. for these reactions were determined
Rhodium
tetra (4-**sulfonatophenyl**)porphyrin [(TSPP)Rh], reacts with dihydrogen, carbon monoxide and olefins in water to form the hydride, formyl and β-hydroxy alkyl derivs. Results from these studies will be presented in the context of substrate reactions of **rhodium porphyrins** with dihydrogen, carbon monoxide and ethene in non-aqueous media.

=> s sulfamidat? and porph?
111 SULFAMIDAT?
69668 PORPH?
L8 4 SULFAMIDAT? AND PORPH?

=> d 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:1019826 CAPLUS
DN 142:6560
TI Intramolecular amidation of sulfamates 1,2,3-oxathiazolidine-2,2-dione and tetrahydro-1,2,3-oxathiazine-2,2-dione derivatives catalyzed by metalloporphyrins
IN Che, Chi-Ming; Liang, Jiang-Lin
PA Hong Kong
SO U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. Ser. No. 202,581.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004236099	A1	20041125	US 2004-790810	20040303
	US 2004019204	A1	20040129	US 2002-202581	20020723
PRAI	US 2002-202581	A2	20020723		

OS MARPAT 142:6560

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:363764 CAPLUS
DN 141:123207
TI Intramolecular C-N Bond Formation Reactions Catalyzed by Ruthenium **Porphyrins**: Amidation of Sulfamate Esters and Aziridination of Unsaturated Sulfonamides
AU Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Che, Chi-Ming
CS Department of Chemistry and Open Laboratory of Chemical Biology, Institute of Molecular Technology for Drug Discovery and Synthesis, University of Hong Kong, Hong Kong
SO Journal of Organic Chemistry (2004), 69(11), 3610-3619
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:123207
RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:76042 CAPLUS
DN 140:128437
TI Preparation of cyclic **sulfamidates** by metalloporphyrin-catalyzed oxidative intramolecular amidation of sulfamate esters.
IN Che, Chiming; Liang, Jianglin
PA The University of Hong Kong, Peop. Rep. China
SO Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1384718	A1	20040128	EP 2003-102223	20030718
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004019204	A1	20040129	US 2002-202581	20020723
PRAI	US 2002-202581	A	20020723		

OS CASREACT 140:128437
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:756471 CAPLUS
DN 138:187747
TI Highly diastereo- and enantioselective intramolecular amidation of saturated C-H bonds catalyzed by ruthenium **porphyrins**
AU Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Yu, Wing-Yiu; Che, Chi-Ming
CS Department of Chemistry and Open Laboratory of Chemical Biology of the Institute of Molecular Technology for Drug Discovery and Synthesis, The University of Hong Kong, Hong Kong, Hong Kong
SO Angewandte Chemie, International Edition (2002), 41(18), 3465-3468
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 138:187747
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> s porphyrin and superior and conventional and cataly?
         34445 PORPHYRIN
         24064 PORPHYRINS
         40529 PORPHYRIN
                 (PORPHYRIN OR PORPHYRINS)
        144991 SUPERIOR
            11 SUPERIORS
        145001 SUPERIOR
                 (SUPERIOR OR SUPERIORS)
        360292 CONVENTIONAL
            17 CONVENTIONALS
        360303 CONVENTIONAL
                 (CONVENTIONAL OR CONVENTIONALS)
       1289814 CATALY?
L9            1 PORPHYRIN AND SUPERIOR AND CONVENTIONAL AND CATALY?

=> d

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:496146 CAPLUS
DN 131:296250
TI Synthesis of meso-tetra-(3,5-dibromo-4-hydroxyphenyl)- porphyrin and its application to second-derivative spectrophotometric determination of lead in clinical samples
AU Li, Zaijun; Zhu, Zhengzhong; Tang, Jan; Pan, Jiaomai
CS Dep. Chem. Eng., Wuxi University of Light Industry, Wuxi, 214036, Peop. Rep. China
SO Analyst (Cambridge, United Kingdom) (1999), 124(8), 1227-1231
CODEN: ANALAO; ISSN: 0003-2654
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s metalloporphyrin catalysts
          3791 METALLOPORPHYRIN
          5569 METALLOPORPHYRINS
          6965 METALLOPORPHYRIN
                 (METALLOPORPHYRIN OR METALLOPORPHYRINS)
        713563 CATALYSTS
             1 CATALYSTSES
        713563 CATALYSTS
                 (CATALYSTS OR CATALYSTSES)
L10          121 METALLOPORPHYRIN CATALYSTS
                 (METALLOPORPHYRIN(W)CATALYSTS)
```

```
=> s l10 and rhodium
         67191 RHODIUM
            31 RHODIUMS
         67192 RHODIUM
                (RHODIUM OR RHODIUMS)
L11          3 L10 AND RHODIUM

=> d 1-3

L11  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1995:27111  CAPLUS
DN   122:159797
TI   Carbene insertion into oxygen-hydrogen bonds by metalloporphyrin
     catalysts
AU   Hayashi, Takashi; Kato, Tomoki; Kaneko, Tomomasa; Asai, Tomohito; Ogoshi,
     Hisanobu
CS   Department of Synthetic Chemistry and Biological Chemistry, Faculty of
     Engineering, Kyoto University, Sakyo-ku, Kyoto, 606-01, Japan
SO   Journal of Organometallic Chemistry (1994), 473(1-2), 323-7
     CODEN: JORCAI; ISSN: 0022-328X
DT   Journal
LA   English
OS   CASREACT 122:159797

L11  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1993:494707  CAPLUS
DN   119:94707
TI   Processes for producing carbamates and isocyanates
IN   Leung, Tak W.; Dombek, Bernard D.
PA   Union Carbide Chemicals and Plastics Technology Corp., USA
SO   U.S., 13 pp.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    -------------------    --------
PI   US 5194660           A     19930316    US 1990-631962         19901221
PRAI US 1990-631962             19901221
OS   CASREACT 119:94707

L11  ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1989:464960  CAPLUS
DN   111:64960
TI   Method for supporting metalloporphyrins on polybenzimidazole porous
     articles for catalysts
IN   Shepherd, James P.
PA   Hoechst Celanese Corp., USA
SO   U.S., 10 pp.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    -------------------    --------
PI   US 4800188           A     19890124    US 1987-28353          19870320
PRAI US 1987-28353              19870320


=> d abs 2

L11  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AB   Carbamates are prepared by oxidative carbonylation of primary or secondary
     amines or ureas with CO in presence of an alc., an O-containing oxidizing
     agent, metalloporphyrin or metal phthalocyanine catalyst derived from
     Group IIIa-Va and Group VIII metals, and an iodine-containing promoter.
     Decomposition of carbamates prepared in this manner affords isocyanates.  Thus,
     reaction of 3.0 g tert-BuNH2, 0.20 g CoPc (Pc = phthalocyanine dianion),
     and 1.0 g NaI with 40 g EtOH under 80 psi O2/1520 psi CO afforded 99%
     yield of Et N-tert-Bu carbamate.


=> s l10 not l11
        131707 l11
L12        121 L10 NOT l11

=> s l10 not l11
L13        118 L10 NOT L11

=> s l13 and (superior or advantageous or better)
        144991 SUPERIOR
            11 SUPERIORS
        145001 SUPERIOR
                (SUPERIOR OR SUPERIORS)
         26567 ADVANTAGEOUS
        360922 BETTER
            31 BETTERS
        360949 BETTER
                (BETTER OR BETTERS)
L14          8 L13 AND (SUPERIOR OR ADVANTAGEOUS OR BETTER)

=> d 1-8

L14  ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1995:83814  CAPLUS
DN   122:34704
TI   Biomimetic catalyst development for natural gas conversion
AU   Showalter, Margaret C.; Shelnutt, John A.; Medforth, Craig J.; Quirke, J.
     Martin E.
CS   Fuel Sci. Dep., Sandia Natl. Lab., Albuquerque, NM, 87185-0710, USA
SO   Preprints of Papers - American Chemical Society, Division of Fuel
     Chemistry (1994), 39(4), 1002-5
     CODEN: ACFPAI; ISSN: 0569-3772
PB   American Chemical Society, Division of Fuel Chemistry
DT   Journal
LA   English

L14  ANSWER 2 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1994:273484  CAPLUS
DN   120:273484
TI   Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel
     (IPG). Catalytic activity in the oxidation of cyclohexane and
     characterization of iron porphyrin-IPG systems
AU   Iamamoto, Yassuko; Ciuffi, Katia Jorge; Sacco, Herica Cristina; Prado,
     Cynthia Maria C.; de Moraes, Margarida; Nascimento, Otaciro Rangel
CS   Dep. Quim., Univ. Sao Paulo, Ribeirao Preto, Brazil
SO   Journal of Molecular Catalysis (1994), 88(2), 167-76
     CODEN: JMCADS; ISSN: 0304-5102
DT   Journal
LA   English

L14  ANSWER 3 OF 8  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1993:448837  CAPLUS
DN   119:48837
TI   Anchored manganese and ruthenium porphyrins as catalysts in the
     decomposition of cyclohexyl hydroperoxide
AU   Hansen, C. B.; Hoogers, G. J.; Drenth, W.
CS   Debije Inst., Utrecht Univ., Utrecht, 3584 CH, Neth.
SO   Journal of Molecular Catalysis (1993), 79(1-3), 153-63
     CODEN: JMCADS; ISSN: 0304-5102
```

DT Journal
LA English
OS CASREACT 119:48837

L14 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:124017 CAPLUS
DN 118:124017
TI Studies on the catalytic effects of organic compounds by polymer-bonded metalloporphyrins
AU Lee, Sung Ju; Paeng, Ki Jung; Whang, Kyu Ja
CS Dep. Chem., Yonsei Univ., Wonju, 222-701, S. Korea
SO Journal of the Korean Chemical Society (1992), 36(5), 744-52
CODEN: JKCSEZ; ISSN: 0418-2472
DT Journal
LA Korean

L14 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1992:514005 CAPLUS
DN 117:114005
TI Nitrated metalloporphyrins as catalysts for alkane oxidation
IN Ellis, Paul E., Jr.; Lyons, James E.
PA Sun Refining and Marketing Co., USA
SO U.S., 3 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5120882	A	19920609	US 1991-758147	19910912
	US 5280115	A	19940118	US 1992-892106	19920602
	CA 2077983	AA	19930313	CA 1992-2077983	19920910
	EP 532326	A2	19930317	EP 1992-308246	19920910
	EP 532326	A3	19930428		
	EP 532326	B1	19960417		
	R: BE, DE, FR, GB, IT, NL				
	JP 05262684	A2	19931012	JP 1992-267792	19920911
PRAI	US 1991-758147	A2	19910912		
	US 1992-892106	A	19920602		

OS MARPAT 117:114005

L14 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1991:655400 CAPLUS
DN 115:255400
TI Highly oxidation resistant inorganic-porphyrin analog polyoxometalate oxidation catalysts. 2. Catalysis of olefin epoxidation and aliphatic and aromatic hydroxylations starting from α2-P2W17O61(Mn+·Br)(n-11) (Mn+ = Mn3+,Fe3+,Co2+,Ni2+,Cu2+), including quantitative comparisons to **metalloporphyrin catalysts**
AU Mansuy, Daniel; Bartoli, Jean Francois; Battioni, Pierrette; Lyon, David K.; Finke, Richard G.
CS Lab. Chim. Biochim. Pharmacol. Toxicol., Univ. Rene Descartes, Paris, 75270, Fr.
SO Journal of the American Chemical Society (1991), 113(19), 7222-6
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
OS CASREACT 115:255400

L14 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1986:608315 CAPLUS
DN 105:208315
TI Shape-selective alkane hydroxylation by **metalloporphyrin catalysts**
AU Cook, Bruce R.; Reinert, Thomas J.; Suslick, Kenneth S.
CS Sch. Chem. Sci., Univ. Illinois, Urbana, IL, 61801, USA
SO Journal of the American Chemical Society (1986), 108(23), 7281-6
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
OS CASREACT 105:208315

L14 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1983:160198 CAPLUS
DN 98:160198
TI Oxidation of sulfide with iodosylarenes catalyzed with metalloporphyrin chlorides
AU Ando, Wataru; Tajima, Rieko; Takata, Toshikazu
CS Dep. Chem., Univ. Tsukuba, Ibaraki, 305, Japan
SO Tetrahedron Letters (1982), 23(16), 1685-8
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 98:160198

```
=> s c-h bond oxidation
     3401172 C
     2609279 H
      523944 BOND
      260073 BONDS
      673238 BOND
                (BOND OR BONDS)
      425964 OXIDATION
        4807 OXIDATIONS
      427215 OXIDATION
                (OXIDATION OR OXIDATIONS)
      731786 OXIDN
        9206 OXIDNS
      733707 OXIDN
                (OXIDN OR OXIDNS)
      867044 OXIDATION
                (OXIDATION OR OXIDN)
L15         31 C-H BOND OXIDATION
               (C(W)H(W)BOND(W)OXIDATION)

=> s l15 and porph?
       69668 PORPH?
L16          2 L15 AND PORPH?

=> d 1-2
```

L16 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:621274 CAPLUS
DN 127:314073
TI Synthesis, characterization and reactivity of novel bis(tosyl)imidoruthenium(VI) **porphyrin** complexes; x-ray crystal structure of a tosylamidoruthenium(IV) **porphyrin**
AU Au, Sze-Man; Fung, Wai-Hong; Cheng, Ming-Chuan; Che, Chi-Ming; Peng, Shie-Ming
CS Department of Chemistry, The University of Hong Kong, Hong Kong, Hong Kong
SO Chemical Communications (Cambridge) (1997), (17), 1655-1656
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:440256 CAPLUS
DN 127:121428
TI Origin of the Oxygen Atom in **C-H Bond Oxidations** Catalyzed by a Water-Soluble Metalloporphyrin
AU Balahura, Robert J.; Sorokin, Alexander; Bernadou, Jean; Meunier, Bernard
CS Chemistry Department, University of Guelph, Ontario, ON, N1G 2W1, Can.
SO Inorganic Chemistry (1997), 36(16), 3488-3492
CODEN: INOCAJ; ISSN: 0020-1669
PB American Chemical Society
DT Journal
LA English
OS CASREACT 127:121428

=> d abs 2

L16 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AB The monopersulfate oxidation of 4-isopropylbenzoic acid performed in H2180 and catalyzed by a water-soluble metalloporphyrin indicated that half of the oxygen atoms incorporated in 4-(1-hydroxy-1-methylethyl)benzoic acid, the primary hydroxylation product, came from water. A redox tautomerism of the active high-valent hydroxo-metal-oxo **porphyrin** intermediate coupled with an oxygen rebound mechanism explained this result. Under similar conditions, ketoprofen was directly oxidized to 3-benzoylacetophenone, via at least two different reaction pathways. Trapping of radical intermediates by mol. oxygen competed with the oxygen rebound mechanism.

=> s amidation and rhodium porphyrin
27606 AMIDATION
77 AMIDATIONS
27627 AMIDATION
(AMIDATION OR AMIDATIONS)
67191 RHODIUM
31 RHODIUMS
67192 RHODIUM
(RHODIUM OR RHODIUMS)
34445 PORPHYRIN
24064 PORPHYRINS
40529 PORPHYRIN
(PORPHYRIN OR PORPHYRINS)
169 RHODIUM PORPHYRIN
(RHODIUM(W)PORPHYRIN)
L17 0 AMIDATION AND RHODIUM PORPHYRIN

=> d his

(FILE 'HOME' ENTERED AT 07:58:26 ON 17 JAN 2006)

FILE 'CAPLUS' ENTERED AT 08:05:25 ON 17 JAN 2006
L1 169 S RHODIUM PORPHYRIN
L2 5 S L1 AND OXIDATION CATALYST
L3 164 S L1 NOT L2
L4 0 S L1 AND SUPERIOR AND CONVENTIONAL
L5 0 S L1 AND SUPERIOR
L6 0 S L1 AND ADVANTAGEOUS
L7 13 S L1 AND SULF?
L8 4 S SULFAMIDAT? AND PORPH?
L9 1 S PORPHYRIN AND SUPERIOR AND CONVENTIONAL AND CATALY?
L10 121 S METALLOPORPHYRIN CATALYSTS
L11 3 S L10 AND RHODIUM
L12 121 S L10 NOT 111
L13 118 S L10 NOT L11
L14 8 S L13 AND (SUPERIOR OR ADVANTAGEOUS OR BETTER)
L15 31 S C-H BOND OXIDATION
L16 2 S L15 AND PORPH?
L17 0 S AMIDATION AND RHODIUM PORPHYRIN

=> s l1 and c-h bond oxidation
3401172 C
2609279 H
523944 BOND
260073 BONDS
673238 BOND
(BOND OR BONDS)
425964 OXIDATION
4807 OXIDATIONS
427215 OXIDATION
(OXIDATION OR OXIDATIONS)
731786 OXIDN
9206 OXIDNS
733707 OXIDN
(OXIDN OR OXIDNS)
867044 OXIDATION
(OXIDATION OR OXIDN)
31 C-H BOND OXIDATION
(C(W)H(W)BOND(W)OXIDATION)
L18 0 L1 AND C-H BOND OXIDATION

=> s cyclic sulfamida?
298092 CYCLIC
336 CYCLICS
298223 CYCLIC
(CYCLIC OR CYCLICS)
207 SULFAMIDA?
L19 43 CYCLIC SULFAMIDA?
(CYCLIC(W)SULFAMIDA?)

=> s l19 and porphyrin
34445 PORPHYRIN
24064 PORPHYRINS
40529 PORPHYRIN
(PORPHYRIN OR PORPHYRINS)
L20 4 L19 AND PORPHYRIN

=> d 1-4

L20 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:1019826 CAPLUS
DN 142:6560
TI Intramolecular amidation of sulfamates 1,2,3-oxathiazolidine-2,2-dione and tetrahydro-1,2,3-oxathiazine-2,2-dione derivatives catalyzed by metalloporphyrins
IN Che, Chi-Ming; Liang, Jiang-Lin
PA Hong Kong
SO U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. Ser. No. 202,581.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004236099	A1	20041125	US 2004-790810	20040303
	US 2004019204	A1	20040129	US 2002-202581	20020723
PRAI	US 2002-202581	A2	20020723		

OS MARPAT 142:6560

L20 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:363764 CAPLUS

DN 141:123207
TI Intramolecular C-N Bond Formation Reactions Catalyzed by Ruthenium **Porphyrins**: Amidation of Sulfamate Esters and Aziridination of Unsaturated Sulfonamides
AU Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Che, Chi-Ming
CS Department of Chemistry and Open Laboratory of Chemical Biology, Institute of Molecular Technology for Drug Discovery and Synthesis, University of Hong Kong, Hong Kong
SO Journal of Organic Chemistry (2004), 69(11), 3610-3619
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:123207
RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:76042 CAPLUS
DN 140:128437
TI Preparation of **cyclic sulfamidates** by metalloporphyrin-catalyzed oxidative intramolecular amidation of sulfamate esters.
IN Che, Chiming; Liang, Jianglin
PA The University of Hong Kong, Peop. Rep. China
SO Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1384718	A1	20040128	EP 2003-102223	20030718
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004019204	A1	20040129	US 2002-202581	20020723
PRAI	US 2002-202581	A	20020723		

OS CASREACT 140:128437
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:756471 CAPLUS
DN 138:187747
TI Highly diastereo- and enantioselective intramolecular amidation of saturated C-H bonds catalyzed by ruthenium **porphyrins**
AU Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Yu, Wing-Yiu; Che, Chi-Ming
CS Department of Chemistry and Open Laboratory of Chemical Biology of the Institute of Molecular Technology for Drug Discovery and Synthesis, The University of Hong Kong, Hong Kong, Hong Kong
SO Angewandte Chemie, International Edition (2002), 41(18), 3465-3468
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 138:187747
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l19 not l10
L21 43 L19 NOT L10

=> s l19 not l20
L22 39 L19 NOT L20

=> d 1-39

L22 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1245779 CAPLUS
TI **Cyclic sulfamidates** as lactam precursors. An efficient asymmetric synthesis of (-)-aphanorphine
AU Bower, John F.; Szeto, Peter; Gallagher, Timothy
CS School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK
SO Chemical Communications (Cambridge, United Kingdom) (2005), (46), 5793-5795
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1108384 CAPLUS
DN 144:23117
TI Homoserine-derived **cyclic sulfamidate** as chiral adduct for the diversity-oriented synthesis of lactam-bridged dipeptides
AU Galaud, Fabrice; Lubell, William D.
CS Departement de Chimie, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Biopolymers (2005), 80(5), 665-674
CODEN: BIPMAA; ISSN: 0006-3525
PB John Wiley & Sons, Inc.
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:508619 CAPLUS
DN 143:194212
TI A Convenient Enantioselective Synthesis of (S)-α-Trifluoromethylisoserine
AU Avenoza, Alberto; Busto, Jesus H.; Jimenez-Oses, Gonzalo; Peregrina, Jesus M.
CS Departamento de Quimica, Universidad de La Rioja, Logrono, E-26006, Spain
SO Journal of Organic Chemistry (2005), 70(14), 5721-5724
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:378921 CAPLUS
DN 143:60036
TI Use of optically active cyclic diethyl sulfamidate 2-phosphonates as chiral synthons for the synthesis of β-substituted α-amino phosphonates
AU Dolence, E. Kurt; Mayer, Gabriele; Kelly, Brenda D.
CS School of Pharmacy, University of Wyoming, Laramie, WY, 82071-3375, USA
SO Tetrahedron: Asymmetry (2005), 16(9), 1583-1594
CODEN: TASYE3; ISSN: 0957-4166
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 143:60036
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:278422 CAPLUS
DN 142:430501
TI SN2 vs E2 on quaternary centers. An easy approach to chiral β2,2-amino acids from **cyclic sulfamidates**
AU Avenoza, Alberto; Busto, Jesus; Corzana, Francisco; Jimenez-Oses, Gonzalo; Peregrina, Jesus
CS Departamento de Quimica, Grupo de Sintesis Quimica de La Rioja, Universidad de La Rioja, Logrono, Spain
SO Phosphorus, Sulfur and Silicon and the Related Elements (2005), 180(5-6), 1459-1460
CODEN: PSSLEC; ISSN: 1042-6507
PB Taylor & Francis, Inc.
DT Journal; General Review
LA English
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:199483 CAPLUS
DN 142:430080
TI 3-(2,5-Dihydro-1H-pyrrol-2-ylmethoxy)pyridines: synthesis and analgesic activity
AU Baraznenok, Ivan L.; Jonsson, Emma; Claesson, Alf
CS Syntagon AB, Soedertaelje, SE-15102, Swed.
SO Bioorganic & Medicinal Chemistry Letters (2005), 15(6), 1637-1640
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 142:430080
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:978758 CAPLUS
DN 142:113854
TI **Cyclic Sulfamidates** as Vehicles for the Synthesis of Substituted Lactams
AU Bower, John F.; Svenda, Jakub; Williams, Andrew J.; Charmant, Jonathan P. H.; Lawrence, Ron M.; Szeto, Peter; Gallagher, Timothy
CS School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK
SO Organic Letters (2004), 6(25), 4727-4730
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:113854
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:815303 CAPLUS
DN 142:23441
TI An Efficient Preparation of Isosteric Phosphonate Analogues of Sphingolipids by Opening of Oxirane and **Cyclic Sulfamidate** Intermediates with α-Lithiated Alkylphosphonic Esters
AU Sun, Chaode; Bittman, Robert
CS Department of Chemistry and Biochemistry, Queens College, The City University of New York, Flushing, NY, 11367-1597, USA
SO Journal of Organic Chemistry (2004), 69(22), 7694-7699
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:23441
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:285459 CAPLUS
DN 141:54588
TI SN2 vs. E2 on quaternary centers: an application to the synthesis of enantiopure β2,2-amino acids
AU Avenoza, Alberto; Busto, Jesus H.; Corzana, Francisco; Jimenez-Oses, Gonzalo; Peregrina, Jesus M.
CS Departamento de Quimica, Grupo de Sintesis Quimica de La Rioja, U.A.-C.S.I.C., Universidad de La Rioja, Logrono, E-26006, Spain
SO Chemical Communications (Cambridge, United Kingdom) (2004), (8), 980-981
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 141:54588
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:633616 CAPLUS
DN 139:197488
TI Regio- and stereoselective synthesis of sulfamidates from 1,2-diols using Burgess-type reagents and their conversion to β-amino alcohols
IN Nicolaou, Kyriacos C.; Snyder, Scott A.; Huang, Xianhai
PA The Scripps Research Institute, USA
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003066549	A2	20030814	WO 2003-US3788	20030207
	WO 2003066549	A3	20040325		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-355068P	P	20020207		

OS CASREACT 139:197488; MARPAT 139:197488

L22 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:590187 CAPLUS
DN 140:77120
TI New application of Burgess reagent in its reaction with epoxides
AU Rinner, Uwe; Adams, David R.; dos Santos, Maria L.; Abboud, Khalil A.; Hudlicky, Tomas
CS Department of Chemistry, University of Florida, Gainesville, FL, 32611-7200, USA
SO Synlett (2003), (9), 1247-1252
CODEN: SYNLES; ISSN: 0936-5214
PB Georg Thieme Verlag

DT Journal
LA English
OS CASREACT 140:77120
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 12 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:575461 CAPLUS
DN 139:381652
TI Synthesis of the spermidine alkaloids (-)-(2R,3R)- and (-)-(2R,3S)-3-hydroxycelacinnine: Macrocyclization with oxirane-ring opening and inversion via **cyclic sulfamidates**
AU Khanjin, Nikolai A.; Hesse, Manfred
CS Organisch-chemisches Institut der Universitaet Zuerich, Zurich, CH-8057, Switz.
SO Helvetica Chimica Acta (2003), 86(6), 2028-2057
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 139:381652
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 13 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:537522 CAPLUS
TI Synthesis of F18 radiolabeled 3-aminoxy-2-fluoropropanamine, an ornithine decarboxylase inhibitor, for positron emission tomography tumor imaging
AU Murali, Dhanabalan; DeJesus, Onofre T.
CS Medical School, Department of Medical Physics, University of Wisconsin-Madison, Madison, WI, USA
SO Abstracts, 35th Great Lakes Regional Meeting of the American Chemical Society, Chicago, IL, United States, May 31-June 2 (2003), 149 Publisher: American Chemical Society, Washington, D. C.
CODEN: 69EBCS
DT Conference; Meeting Abstract
LA English

L22 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:173445 CAPLUS
DN 138:221708
TI Preparation of antibacterial agents based upon oxyanion binding
IN Cooper, Stephen R.; Yager, Kraig M.
PA Quorex Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003018029	A1	20030306	WO 2002-US27154	20020822
	W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2455504	AA	20030306	CA 2002-2455504	20020822
	US 2003105062	A1	20030605	US 2002-227327	20020822
	US 6737415	B2	20040518		
	EP 1418923	A1	20040519	EP 2002-759457	20020822
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	JP 2005504777	T2	20050217	JP 2003-522547	20020822
	US 2004152669	A1	20040805	US 2003-676770	20031001
PRAI	US 2001-314683P	P	20010824		
	US 2002-227327	A3	20020822		
	WO 2002-US27154	W	20020822		

OS CASREACT 138:221708; MARPAT 138:221708
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:135796 CAPLUS
DN 138:304244
TI 1,2-**Cyclic Sulfamidates** as Versatile Precursors to Thiomorpholines and Piperazines
AU Williams, Andrew J.; Chakthong, Suda; Gray, Diane; Lawrence, Ron M.; Gallagher, Timothy
CS School of Chemistry, University of Bristol, Bristol, BS8 1TS, UK
SO Organic Letters (2003), 5(6), 811-814
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 138:304244
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:488378 CAPLUS
DN 137:201271
TI New Routes to N-Alkylated **Cyclic Sulfamidates**
AU Posakony, Jeffrey J.; Grierson, John R.; Tewson, Timothy J.
CS PET Imaging Center, Department of Radiology, University of Iowa, Iowa City, IA, 52242-1007, USA
SO Journal of Organic Chemistry (2002), 67(15), 5164-5169
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:201271
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:414659 CAPLUS
DN 137:262753
TI Substitution reactions of hindered **cyclic sulfamidates**
AU Posakony, Jeffrey J.; Tewson, Timothy J.
CS Department of Radiology Imaging Research Laboratory, University of Washington, Seattle, WA, 98195, USA
SO Synthesis (2002), (7), 859-864
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 137:262753
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:370219 CAPLUS
DN 137:232363

TI Fluoroamines via chiral **cyclic sulfamidates**
AU Posakony, Jeffrey J.; Tewson, Timothy J.
CS Department of Radiology Imaging Research Laboratory, University of Washington, Seattle, WA, 98195, USA
SO Synthesis (2002), (6), 766-770
CODEN: SYNTBF; ISSN: 0039-7881
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 137:232363
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:312318 CAPLUS
DN 137:43587
TI Radiolabeled Amino Acids for Tumor Imaging with PET: Radiosynthesis and Biological Evaluation of 2-Amino-3-[18F]fluoro-2-methylpropanoic Acid and 3-[18F]Fluoro-2-methyl-2-(methylamino)propanoic Acid
AU McConathy, Jonathan; Martarello, Laurent; Malveaux, Eugene J.; Camp, Vernon M.; Simpson, Nicholas E.; Simpson, Chiab P.; Bowers, Geoffrey D.; Olson, Jeffrey J.; Goodman, Mark M.
CS Department of Radiology and Department of Neurosurgery, Emory University Hospital School of Medicine, Atlanta, GA, 30322, USA
SO Journal of Medicinal Chemistry (2002), 45(11), 2240-2249
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 20 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:242227 CAPLUS
DN 137:63015
TI A novel regio- and stereoselective synthesis of sulfamidates from 1,2-diols using Burgess and related reagents: a facile entry into β-amino alcohols
AU Nicolaou, K. C.; Huang, Xianhai; Snyder, Scott A.; Rao, Paraselli Bheema; Bella, Marco; Reddy, Mali V.
CS Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SO Angewandte Chemie, International Edition (2002), 41(5), 834-838
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 137:63015
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:144215 CAPLUS
DN 136:340983
TI Application of Serine- and Threonine-Derived **Cyclic Sulfamidates** for the Preparation of S-Linked Glycosyl Amino Acids in Solution- and Solid-Phase Peptide Synthesis
AU Cohen, Scott B.; Halcomb, Randall L.
CS Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO, 80309-0215, USA
SO Journal of the American Chemical Society (2002), 124(11), 2534-2543
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 136:340983
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:136872 CAPLUS
DN 137:185078
TI New carbon-carbon bond forming reactions of cyclic sulfate esters and **cyclic sulfamidates**
AU Pound, Melanie K.; Davies, Darren L.; Pilkington, Melanie; de Pina Vaz Sousa, Maria M.; Wallis, John D.
CS Department of Chemistry and Physics, The Nottingham Trent University, Nottingham, NG11 8NS, UK
SO Tetrahedron Letters (2002), 43(10), 1915-1918
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 137:185078
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:614599 CAPLUS
DN 135:344718
TI N-(9-(9-Phenylfluorenyl))homoserine-Derived **Cyclic Sulfamidates**: Novel Chiral Adducts for the Synthesis of Enantiopure γ-Substituted α-Amino Acids
AU Atfani, Mohamed; Wei, Lan; Lubell, William D.
CS Departement de Chimie, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Organic Letters (2001), 3(19), 2965-2968
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:344718
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:153423 CAPLUS
DN 134:296067
TI Scope and limitations in the use of N-(PhF)serine-derived **cyclic sulfamidates** for amino acid synthesis
AU Wei, Lan; Lubell, William D.
CS Departement de chimie, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Canadian Journal of Chemistry (2001), 79(1), 94-104
CODEN: CJCHAG; ISSN: 0008-4042
PB National Research Council of Canada
DT Journal
LA English
OS CASREACT 134:296067
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:19603 CAPLUS
DN 134:208075
TI Synthesis of S-Linked Glycosyl Amino Acids in Aqueous Solution with Unprotected Carbohydrates
AU Cohen, Scott B.; Halcomb, Randall L.
CS Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO, 80309-0215, USA
SO Organic Letters (2001), 3(3), 405-407
CODEN: ORLEF7; ISSN: 1523-7060

PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:208075
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 26 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:523459 CAPLUS
DN 133:267096
TI Racemization in the Use of N-(9-(9-Phenylfluorenyl))Serine-Derived **Cyclic Sulfamidates** in the Synthesis of δ-Keto α-Amino Carboxylates and Prolines
AU Wei, Lan; Lubell, William D.
CS Departement de Chimie, Universite de Montreal, Montreal, QC, H3C 3J7, Can.
SO Organic Letters (2000), 2(17), 2595-2598
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 27 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:672133 CAPLUS
DN 132:49950
TI A short synthesis of chiral peraza-macrocycles through opening of **cyclic sulfamidates**
AU Kim, B. Moon; So, Soon Mog
CS Department of Chemistry and Center for Molecular Catalysis, College of Natural Sciences, Seoul National University, Seoul, 151-742, S. Korea
SO Tetrahedron Letters (1999), 40(43), 7687-7690
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 28 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:333921 CAPLUS
DN 131:170602
TI Generation of unnatural α,α-disubstituted amino acid derivatives from **cyclic sulfamidates**
AU Boulton, Lee T.; Stock, H. Thijs; Raphy, Jennifer; Horwell, David C.
CS Parke-Davis Neuroscience Research Centre, Cambridge University, Cambridge, CB2 2QB, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1999), (11), 1421-1430
CODEN: JCPRB4; ISSN: 0300-922X
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 131:170602
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 29 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:320249 CAPLUS
DN 131:73355
TI Improved syntheses of fluorinated tertiary butylamines
AU Ok, Dong; Fisher, Michael H.; Wyvratt, Matthew J.; Meinke, Peter T.
CS Department of Basic Medicinal Chemistry, Merck Research Laboratories, Rahway, NJ, 07065-0900, USA
SO Tetrahedron Letters (1999), 40(20), 3831-3834
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:454041 CAPLUS
DN 129:161178
TI Efficient hydrolysis of β-aminosulfamic acids using a Lewis acid and a thiol for the synthesis of 2,3-diaminopropanoate derivatives
AU Kim, B. Moon; So, Soon Mog
CS Department of Chemistry and Center for Molecular Catalysis, Seoul National University, Seoul, 151-742, S. Korea
SO Tetrahedron Letters (1998), 39(30), 5381-5384
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 129:161178
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 31 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:208878 CAPLUS
DN 128:192852
TI Synthesis of a Thio-Analog of Lewis X by Regioselective Opening of **Cyclic Sulfamidates**
AU Aguilera, Begona; Fernandez-Mayoralas, Alfonso
CS Instituto de Quimica Organica General, CSIC, Madrid, E-28006, Spain
SO Journal of Organic Chemistry (1998), 63(8), 2719-2723
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 32 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:271338 CAPLUS
DN 126:330758
TI Use of **cyclic sulfamidates** derived from D-allosamine in nucleophilic displacements: scope and limitations
AU Aguilera, Begona; Fernandez-Mayoralas, Alfonso; Jaramillo, Carlos
CS Dep. Quimica Organica Biologica, Inst. Quimica Organica, Madrid, 28006, Spain
SO Tetrahedron (1997), 53(16), 5863-5876
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier
DT Journal
LA English

L22 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:154217 CAPLUS
DN 124:317654
TI Nucleophilic displacements on a **cyclic sulfamidate** derived from allosamine: application to the synthesis of thiooligosaccharides
AU Aguilera, Begona; Fernandez-Mayoralas, Alfonso
CS Grupo Carbohidratos, Instituto Quimica Organica, Madrid, 28006, Spain
SO Chemical Communications (Cambridge) (1996), (2), 127-28
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal

LA English

L22 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1995:380747 CAPLUS
DN 122:182135
TI Fluorine for Hydroxy Substitution in Biogenic Amines: Asymmetric Synthesis and Biological Evaluation of Fluorine-18-Labeled β-Fluorophenylalkylamines as Model Systems
AU Van Dort, Marcian E.; Jung, Yong-Woon; Sherman, Philip S.; Kilbourn, Michael R.; Wieland, Donald M.
CS Medical School, University of Michigan, Ann Arbor, MI, 48109-0552, USA
SO Journal of Medicinal Chemistry (1995), 38(5), 810-15
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English

L22 ANSWER 35 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:591879 CAPLUS
DN 121:191879
TI Methyl DL-3-benzyl-2,2-dioxo-1,2,3-oxathiazolidine-4-carboxylate - an intermediate for amino acid synthesis
AU Gritsonie, Penny; Pilkington, Melanie; Wallis, John D.
CS Chem. Lab., Univ. Kent, Canterbury, CT2 7NH, UK
SO Acta Crystallographica, Section C: Crystal Structure Communications (1994), C50(5), 763-5
CODEN: ACSCEE; ISSN: 0108-2701
DT Journal
LA English

L22 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:579176 CAPLUS
DN 121:179176
TI Stereo- and regiochemical aspects of the Mitsunobu reaction in synthesis of chiral amino ether ligands for asymmetric reactions
AU Okuda, Manabu; Tomioka, Kiyoshi
CS Institute of Scientific and Industrial Research, Osaka University, Ibaraki, 567, Japan
SO Tetrahedron Letters (1994), 35(26), 4585-6
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 121:179176

L22 ANSWER 37 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:299238 CAPLUS
DN 120:299238
TI Synthesis and stability of the **cyclic sulfamidate** of N-trityl-L-serine methyl ester
AU Pilkington, Melanie; Wallis, John D.
CS Chem. Lab., Univ. Kent, Canterbury, CT2 7NH, UK
SO Journal of the Chemical Society, Chemical Communications (1993), (24), 1857-8
CODEN: JCCCAT; ISSN: 0022-4936
DT Journal
LA English
OS CASREACT 120:299238

L22 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1991:164739 CAPLUS
DN 114:164739
TI **Cyclic sulfamidates**: new synthetic precursors for β-functionalised α-amino acids
AU Baldwin, Jack E.; Spivey, Alan C.; Schofield, Christopher J.
CS Dyson Perrins Lab., Oxford Cent. Mol. Sci., Oxford, OX1 3QY, UK
SO Tetrahedron: Asymmetry (1990), 1(12), 881-4
CODEN: TASYE3; ISSN: 0957-4166
DT Journal
LA English
OS CASREACT 114:164739

L22 ANSWER 39 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1991:143286 CAPLUS
DN 114:143286
TI The direct synthesis of the **cyclic sulfamidate** of (S)-prolinol: simultaneous N-protection and activation towards nucleophilic displacement of oxygen
AU Alker, David; Doyle, Kevin J.; Harwood, Laurence M.; McGregor, Andrew
CS Pfizer Cent. Res., Sandwich/Kent, CT13 9NJ, UK
SO Tetrahedron: Asymmetry (1990), 1(12), 877-80
CODEN: TASYE3; ISSN: 0957-4166
DT Journal
LA English
OS CASREACT 114:143286

=> s porphyrin and cataly? and superior and acetate
34445 PORPHYRIN
24064 PORPHYRINS
40529 PORPHYRIN
(PORPHYRIN OR PORPHYRINS)
1289814 CATALY?
144991 SUPERIOR
11 SUPERIORS
145001 SUPERIOR
(SUPERIOR OR SUPERIORS)
501339 ACETATE
27770 ACETATES
512670 ACETATE
(ACETATE OR ACETATES)
L23 1 PORPHYRIN AND CATALY? AND SUPERIOR AND ACETATE

=> d

L23 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1992:571098 CAPLUS
DN 117:171098
TI Epoxidation of olefin **catalyzed** by metal **porphyrins** and polyethylene glycol
AU Xu, Zhenghui; Xi, Zuwei; Jiang, Ziqi
CS Dalian Inst. Chem. Phys., Chin. Acad. Sci., Dalian, 116012, Peop. Rep. China
SO Fenzi Cuihua (1992), 6(3), 213-19
CODEN: FECUEN; ISSN: 1001-3555
DT Journal
LA Chinese

=> d abs

L23 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AB The phase transfer **catalysis** of PEG-X (X = 200, 400, 1000, 2000) in epoxidn. of olefins **catalyzed** by metal **porphyrin** with NaOCl in CH2Cl2-H2O biphase system, a model for mimicking cytochrome P 450, was studied, and compared with that of Me(CH2)15N+Me3Br- as the PTC. The exptl. results showed that PEG-X as a PTC were **superior** to Me3(CH2)15N+Me3Br-, on the basis of their higher **catalytic** activity and anti-oxidation ability. By anchoring PEG-400 to the metal **porphyrin**, manganese tetra(p-hydrophenyl) **porphyrin** **acetate**, the **catalytic** activity and stability of the

metal **porphyrin catalyst** were greatly enhanced. The transfer of -OCl from the aqueous phase to the oil phase was also facilitated. Compared with the free PEG-400 as a PTC, the PEG-400 on the metal **porphyrin** showed the better transfer ability.

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=> d his

     (FILE 'HOME' ENTERED AT 07:58:26 ON 17 JAN 2006)

     FILE 'CAPLUS' ENTERED AT 08:05:25 ON 17 JAN 2006
L1          169 S RHODIUM PORPHYRIN
L2            5 S L1 AND OXIDATION CATALYST
L3          164 S L1 NOT L2
L4            0 S L1 AND SUPERIOR AND CONVENTIONAL
L5            0 S L1 AND SUPERIOR
L6            0 S L1 AND ADVANTAGEOUS
L7           13 S L1 AND SULF?
L8            4 S SULFAMIDAT? AND PORPH?
L9            1 S PORPHYRIN AND SUPERIOR AND CONVENTIONAL AND CATALY?
L10         121 S METALLOPORPHYRIN CATALYSTS
L11           3 S L10 AND RHODIUM
L12         121 S L10 NOT 111
L13         118 S L10 NOT L11
L14           8 S L13 AND (SUPERIOR OR ADVANTAGEOUS OR BETTER)
L15          31 S C-H BOND OXIDATION
L16           2 S L15 AND PORPH?
L17           0 S AMIDATION AND RHODIUM PORPHYRIN
L18           0 S L1 AND C-H BOND OXIDATION
L19          43 S CYCLIC SULFAMIDA?
L20           4 S L19 AND PORPHYRIN
L21          43 S L19 NOT L10
L22          39 S L19 NOT L20
L23           1 S PORPHYRIN AND CATALY? AND SUPERIOR AND ACETATE

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        425964 OXIDATION
          4807 OXIDATIONS
        427215 OXIDATION
                (OXIDATION OR OXIDATIONS)
        731786 OXIDN
          9206 OXIDNS
        733707 OXIDN
                (OXIDN OR OXIDNS)
        867044 OXIDATION
                (OXIDATION OR OXIDN)
L24          22 L3 AND OXIDATION

=> s l24 not l7
L25          21 L24 NOT L7

=> s l25 notl8
MISSING OPERATOR L25 NOTL8
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nested terms that are not separated by a logical operator.

=> s l25 not l8
L26          21 L25 NOT L8

=> s l26 not l9
L27          21 L26 NOT L9

=> s l27 not l10
L28          21 L27 NOT L10

=> s l28 not l11
L29          21 L28 NOT L11

=> s l29 not 12
       1362014 12
L30          18 L29 NOT 12

=> s l30 not l12
L31          18 L30 NOT L12

=> s l31 not l14
L32          18 L31 NOT L14

=> s l33 not l15
L33 NOT FOUND
The L-number entered could not be found.  To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l23 not l15
L33           1 L23 NOT L15

=> s l32 not l15
L34          18 L32 NOT L15

=> s l34 not l16
L35          18 L34 NOT L16

=> s l35 not l17
L36          18 L35 NOT L17

=> s l36 not l18
L37          18 L36 NOT L18

=> s l38 not l19
L38 NOT FOUND
The L-number entered could not be found.  To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l37 not l19
L38          18 L37 NOT L19

=> s l39 not l20
L39 NOT FOUND
The L-number entered could not be found.  To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l38 not l20
L39          18 L38 NOT L20

=> s l39 not l21
L40          18 L39 NOT L21

=> d 140 1-18 ibib abs

L40  ANSWER 1 OF 18  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:        2004:572465  CAPLUS
DOCUMENT NUMBER:         141:429528
TITLE:                   Radiolytic and photochemical reduction of carbon
                         dioxide in solution catalyzed by transition metal
                         complexes with some selected macrocycles
AUTHOR(S):               Grodkowski, Jan
CORPORATE SOURCE:        Zakl. Chem. i Tech. Radiacyjnej, Inst. Chem. i Tech.
                         Jadrowej, Warsaw, 03-195, Pol.
SOURCE:                  Raporty IChTJ. Seria A (2004), 1/04, 1-56
                         CODEN: RISAFY; ISSN: 1425-7343
```

DOCUMENT TYPE: Report; General Review
LANGUAGE: Polish
AB A review. The main goal of the work presented in this report is an explanation of the mechanism of carbon dioxide (CO2) reduction catalyzed by transition metal complexes with some selected macrocycles. The catalytic function of two electron exchange centers in the reduction of CO2, an inner metal and a macrocycle ring, was defined. **Rhodium porphyrins** (ClRhIIIP) in alc. alkaline and slightly acidic solns. are reduced photochem. and radiolytically to RhIP- and to HRhIIIP states, resp. The photocatalytic formation of H2 takes place in the system, but no catalytic activity of ClRhIIIP towards CO2 reduction was found. Iron porphyrins exhibit the catalytic reduction of CO2. Iron porphyrins in organic solvents and water are reduced photochem. and radiolytically to the FeIP- state and further reduced forms. In solns. a decay of the FeIP- state is accelerated by H+ and CO2 reactions with the Fe0P2- state. The latter state is formed via disproportionation of the FeIP- state. These reactions lead to the formation of CO, HCOO- and H2. Application of p-terphenyl (TP) as an addnl. photosensitizer increases by one order of magnitude the yield of CO and HCOO- formed during photolysis of CO2 - saturated solns. containing iron and cobalt porphyrins. TP in a presence of triethylamine (TEA) undergoes photoredn. to the radical anion TP •-. The latter, species as a strong reductant, reduces subsequently metalloporphyrins to M0P2- states. The M0P2- state of a porphyrin is responsible for CO2 reduction Side reactions lead to the formation of H2 and the hydrogenation of a porphyrin ring. Phthalocyanines (Pc), in comparison with porphyrins, are characterized by the more extended aromatic structure and they are more resistant for degradation Cobalt and iron phthalocyanines are easily reduced to the MIPc •2- state. However, the latter state does not react with CO2. The more reduced form, anion radical MIPc•2-, is responsible for CO2 reduction that leads to the formation of CO and HCOO-. Phthalocyanines are less efficient reductors of CO2 in comparison with porphyrins. Investigations of cobalt corrins show, that these complexes are more efficient in the catalysis of CO2 photoredn. in comparison with cobalt porphyrins. CO2 is reduced by an intermediate Co0 corrin complex formed in one electron reduction of the CoI complex. Corroles having a smaller macrocycle cavity than porphyrins and a more unsatd. character in comparison with corrins, stabilize better a metal center at higher **oxidation** states in comparison with porphyrins. Because of that their MI **oxidation** state reacts with CO2 and thus it becomes a precursor of CO and HCOO- formation, with the yields comparable with metalloporphyrin systems. Due to the fact, that side reactions cause a ring degradation, it was checked whether the metal ions released during the degradation process could also catalyze CO2 reduction It was found that FeI iron ions react with CO2 to form an adduct, a direct precursor of CO. A protonated form of FeI is responsible for H2 formation instead. A possibility of four-, six- and eight-electrons CO2 reduction was studied in aqueous solns. containing CO2 and CuII copper ions. This study was initiated by the observation of methane formation during electrochem. reduction of CO2 on the copper electrode. It was established that a presence of CuI ions and a reduced form of CO2-radical anion •CO2-, is necessary for CO formation.

L40 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:485180 CAPLUS
DOCUMENT NUMBER: 139:187329
TITLE: Reversible Electrochemical Generation of a Rhodium(II) Porphyrin: Thwarting Disproportionation with Weakly Coordinating Anions
AUTHOR(S): Sun, Haoran; Xue, Feng; Nelson, Andrew P.; Redepenning, Jody; DiMagno, Stephen G.
CORPORATE SOURCE: Department of Chemistry and Center for Materials Research and Analysis, University of Nebraska, Lincoln, NE, 68588-0304, USA
SOURCE: Inorganic Chemistry (2003), 42(15), 4507-4509
CODEN: INOCAJ; ISSN: 0020-1669
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The authors report electrochem. generation of a stable Rh(II) porphyrin (RhII(F28TPP)) from a 4-coordinate Rh(I) precursor [RhI(F28TPP)]- dissolved in weakly coordinating electrolyte solns. This work provides the 1st example of an unambiguously reversible 1-electron electrochem. **oxidation** of a RhI(por), and demonstrates that electrochem. **oxidation** can be performed under conditions that are compatible with alkane activation. These studies begin to classify those media capable of supporting a stable RhII(por), and those that induce disproportionation.
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:286777 CAPLUS
DOCUMENT NUMBER: 138:411108
TITLE: Synthesis and Properties of Rhodium(III) Porphyrin Cyclic Tetramer and Cofacial Dimer
AUTHOR(S): Fukushima, Keiko; Funatsu, Kenji; Ichimura, Akio; Sasaki, Yoichi; Suzuki, Masamitsu; Fujihara, Tetsuaki; Tsuge, Kiyoshi; Imamura, Taira
CORPORATE SOURCE: Division of Chemistry, Graduate School of Science, Hokkaido University, Sapporo, 060-0810, Japan
SOURCE: Inorganic Chemistry (2003), 42(10), 3187-3193
CODEN: INOCAJ; ISSN: 0020-1669
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:411108
AB Rhodium(III) porphyrin complexes, [Rh(4-PyT3P)Cl]4 (1) and [Rh(2-PytB3P)Cl]2 (2) (4-PyT3P = 5-(4-pyridyl)-10,15,20-tritolylporphyrinato dianion, 2-PytB3P = 5-(2-pyridyl)-10,15,20-tri(4-tert-butyl)phenylporphyrinato dianion), were self-assembled and characterized by 1H NMR spectroscopy, IR spectroscopy, and electron spray ionization-mass spectroscopy methods. The spectroscopic results certified that the **rhodium porphyrin** complexes 1 and 2 have a cyclic tetrameric structure and a cofacial dimeric structure, resp. The x-ray structure anal. of 1 confirmed the cyclic structure of the complex. The Soret bands of both oligomers were significantly broadened by excitonic interactions between the porphyrin units, compared to those observed for a corresponding analog of Rh(TTP)(Py)Cl (TTP = 5,10,15,20-tetratolylporphyrinato dianion, Py = pyridine). Stepwise **oxidation** of the porphyrin rings in the oligomers was observed by cyclic voltammetry. The oligomers 1 and 2 are very stable in solution, and they slowly undergo reactions with pyridine to give corresponding monomer complexes only at high temps. (.apprx.80°).
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:189892 CAPLUS
TITLE: Electrochemistry of a series of **rhodium porphyrins**: new understanding of the relationship between electrochemical properties and coordination properties of the **rhodium porphyrins**
AUTHOR(S): DiMagno, Stephen G.; Sun, Haoran; Biffinger, Justin; Nelson, Andrew P.
CORPORATE SOURCE: Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE, 68588-0304, USA
SOURCE: Abstracts of Papers, 223rd ACS National Meeting, Orlando, FL, United States, April 7-11, 2002 (2002), INOR-289. American Chemical Society: Washington, D.

C.
CODEN: 69CKQP
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
AB The electrochem. properties of a series of rhodium thiaporphyrins and perfluorinated **rhodium porphyrins** are investigated by cyclic voltammetry, square wave voltammetry, macroelectrode steady voltammetry, in-situ spectroelectrochem., and digital simulation in various media. The electrochem. properties are strongly dependent on the coordination properties of the **rhodium porphyrins**. For example, when triphenylphosphine presents in 1,2-difluorobenzene solution two steps reversible one-electron **oxidation** of rhodium(I) thiaporphyrin instead of one step irreversible two-electron **oxidn**. of perfluorinated rhodium(I) porphyrin are observed The detailed electrochem. reaction mechanism and the relationship between electrochem. properties and coordination properties of the **rhodium porphyrins** are discussed.

L40 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:483409 CAPLUS
DOCUMENT NUMBER: 127:168078
TITLE: Electrochemical generation of **rhodium porphyrin** hydrides. Catalysis of hydrogen evolution
AUTHOR(S): Grass, Valerie; Lexa, Doris; Saveant, Jean-Michel
CORPORATE SOURCE: Laboratoire d'Electrochimie Moleculaire de l'Universite Denis Diderot, Unite Associee au CNRS No 438, Paris, 75251, Fr.
SOURCE: Journal of the American Chemical Society (1997), 119(32), 7526-7532
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In polar solvents, Rh(III) porphyrins are directly reduced in Rh(I) complexes which react readily with Bronsted acids to give Rh(III) hydrides. They then undergo, at a more neg. potential, an addnl. electron uptake to yield the corresponding Rh(II) hydrides. The electrogenerated rhodium(II) complex is the key intermediate of catalytic hydrogen evolution according to a mechanism which heavily depends on the solvent and on axial ligands. In DMSO, hydride transfer from Rh(II)H- to the acid, yielding H2, competes with hydride transfer reduction of the solvent by both Rh(III)H and Rh(II)H-. In a less-complexing solvent, such as butyronitrile, hydrogen evolution occurs both by hydride transfer to the acid and H-atom abstraction to the solvent. The latter pathway is shut off by the addition of strong and soft ligands such as tertiary phosphines. With PEt3, a particularly strong electron-donating ligand, not only Rh(II)H- but also Rh(III)H triggers H2 evolution. The various changes of the hydrogen evolution mechanism as well as the stability of the catalyst can be rationalized by the variation of the electron d. distribution brought about by the presence or the absence of the axial ligand.
REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:211300 CAPLUS
DOCUMENT NUMBER: 126:322342
TITLE: Reductive Electrochemistry of **Rhodium Porphyrins**. Disproportionation of Intermediary **Oxidation** States
AUTHOR(S): Grass, Valerie; Lexa, Doris; Momenteau, Michel; Saveant, Jean-Michel
CORPORATE SOURCE: Laboratoire d'Electrochimie Moleculaire, Universite Denis Diderot, Paris, 75251, Fr.
SOURCE: Journal of the American Chemical Society (1997), 119(15), 3536-3542
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reduction of rhodium(III) porphyrins in polar aprotic solvents is a two-electron irreversible reaction yielding directly the Rh(I) complex. The cause of this irreversibility is not the metal-metal dimerization of the initially formed Rh(II) complex as believed earlier but rather deligation which generates a secondary Rh(II) species easier to reduce than the starting Rh(III) porphyrin. This is confirmed by the fact that sterically encumbered porphyrins, such as those bearing cross-trans basket-handle superstructures which forbid the approach of two mols. at bonding distance, exhibit the same behavior as simple **rhodium porphyrins**. The occurrence of such an ECE-disproportionation process, seldom observed in the redox chemical of metalloporphyrins or similar complexes, is probably related to the tendency of the rhodium atom to shift out of the porphyrin plane, particularly at the Rh(I) **oxidn**. state. It is remarkable that strong and soft ligands, e.g., tertiary phosphines, annihilate the disproportionation of the rhodium(II) complex.
REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:775551 CAPLUS
DOCUMENT NUMBER: 123:228440
TITLE: Novel chemistry of highly reactive metal complexes: oxidative cross-linking of proteins mediated by a nickel-peptide complex and investigations of the **rhodium porphyrin**-catalyzed cyclopropanation of olefins by diazo esters
AUTHOR(S): Brown, Kathlynn Corinne
CORPORATE SOURCE: Univ. of Texas, Austin, TX, USA
SOURCE: (1994) 189 pp. Avail.: Univ. Microfilms Int., Order No. DA9519254
From: Diss. Abstr. Int., B 1995, 56(2), 821
DOCUMENT TYPE: Dissertation
LANGUAGE: English
AB Unavailable

L40 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:436225 CAPLUS
DOCUMENT NUMBER: 119:36225
TITLE: Factors influencing the site of electroreduction in **rhodium porphyrins**
AUTHOR(S): Kadish, K. M.; Hu, Y.; Tagliatesta, P.; Boschi, T.
CORPORATE SOURCE: Dep. Chem., Univ. Houston, Houston, TX, 77204-5641, USA
SOURCE: Inorganic Chemistry (1993), 32(14), 2996-3002
CODEN: INOCAJ; ISSN: 0020-1669
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The electrochem. of Rh(III) porphyrins containing bound phosphine, isocyanide, or carbene axial ligands was studied by cyclic voltammetry and UV-visible spectroelectrochem. in THF and CH2Cl2 containing Bu4NPF6 as supporting electrolyte. The studied compds. are represented as [(TPP)Rh(L)2]PF6, (TPP)Rh(L')PF6, or (TPP)Rh(PF3)(OH), where TPP is the dianion of tetraphenylporphyrin, L = PPh3, PPh2Me, PPhMe2, and CNCH2Ph, and L' = :C(NHCH2Ph)2. The addition of 1 electron to these complexes leads to 1 of 2 different reduction products, depending upon the temperature and the specific set of
axial ligands. Some of the complexes are reversibly reduced by 1 electron to give a transient Rh(III) porphyrin π anion radical, while others are irreversibly reduced under the same solution conditions to give dimeric [(TPP)Rh]2. In several cases, the addition of 1 electron gives a Rh(II)

dimer at room temperature but a Rh(III) π anion radical at low temperature
The
UV-visible data suggest that all of the studied Rh(III) porphyrins are initially reduced at the porphyrin π ring system, and this is also the conclusion based on electrochem. criteria relating the potentials for **oxidation** and reduction of each metalloporphyrin in nonaq. media. The absolute p.d. between E1/2 for the 1st room temperature **oxidation** of a given complex in CH2Cl2 and the 1st low-temperature reduction of the same species in
THF
(the reaction is reversible) ranges at 2.22-2.32 V, suggesting that both electrode reactions involve the porphyrin π ring system. One of the species, (TPP)Rh(PF3)(OH), undergoes a slow conversion of the electrogenerated π anion radical to dimeric [(TPP)Rh]2, and this reaction was followed as a function of time by thin-layer UV-visible spectroelectrochem. in THF. Exchange equilibrium involving bound PPh3 and THF axial ligands were also studied in CH2Cl2 or THF by UV-visible spectroscopy. Both [(TPP)Rh(PPh3)]+ and [(TPP)Rh(PPh3)2]+ are converted to [(TPP)Rh(PPh3)(THF)]+ in neat THF, but the addition of 1.0 equiv of PPh3 to these solns. leads to [(TPP)Rh(PPh3)2]+ as identified by UV-visible spectroscopy. The formation constant for this reaction was calculated as 103.1 using spectrophotometric methods.

L40 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:407531 CAPLUS
DOCUMENT NUMBER: 117:7531
TITLE: Asymmetric cyclopropanation of alkenes catalyzed by a rhodium chiral fortress porphyrin
AUTHOR(S): O'Malley, Sean; Kodadek, Thomas
CORPORATE SOURCE: Dep. Chem. Biochem., Univ. Texas, Austin, TX, 78712, USA
SOURCE: Organometallics (1992), 11(6), 2299-302
CODEN: ORGND7; ISSN: 0276-7333
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The synthesis and catalytic cyclopropanation activity of a new porphyrin known as the chiral fortress macrocycle is reported. This mol. has optically pure naphthyl-pyrenyl groups appended directly to the meso carbons of the porphyrin. The iodorhodium derivative is a catalyst for the cyclopropanation of alkenes by Et diazoacetate. The syn cyclopropyl esters are the major product in each case examined except one. In some cases very high diastereoselectivity is observed The enantiomeric excess resulting from chiral fortress-mediated reactions are modest.

L40 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:477131 CAPLUS
DOCUMENT NUMBER: 111:77131
TITLE: Synthesis and applications of metalloporphyrins. I. Catalytic reactions by **rhodium porphyrins**
AUTHOR(S): Ogoshi, Hisanobu
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Yuki Gosei Kagaku Kenkyusho Koenshu (1989), 3, 23-31
CODEN: YGKKEI; ISSN: 0913-8463
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese
AB A review with 5 refs., on catalytic reactions using **rhodium porphyrin** complexes, especially **oxidation** of olefins, reduction of ketones, and aldol condensations.

L40 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:428951 CAPLUS
DOCUMENT NUMBER: 109:28951
TITLE: Electrochemical and spectroscopic studies of (P)Rh(R)(L) and [(P)Rh(L)2]+ where P is the dianion of octaethyl- or tetraphenylporphyrin, R is a σ-bonded alkyl group, and L is triphenylphosphine or dimethylphenylphosphine
AUTHOR(S): Kadish, K. M.; Araullo, C.; Yao, C. L.
CORPORATE SOURCE: Dep. Chem., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Organometallics (1988), 7(7), 1583-7
CODEN: ORGND7; ISSN: 0276-7333
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The electrochem. and spectroelectrochem. of (P)Rh(R), (P)Rh(R)(L), and [(P)Rh(L)]2+ where P is the dianion of octaethylporphyrin (OEP) or tetraphenylporphyrin (TPP), R is CH3, C2H5, or C4H9, and L is triphenylphosphine or dimethylphenylphosphine are reported. At polarog. concns. of (P)Rh(R) (.apprx.10-3 M), the binding of 1 triphenylphosphine ligand and the formation of (P)(Rh)(R)(PPh3) were observed This contrasts to lower porphyrin concns. where the bis(triphenylphosphine) adduct [(P)Rh(PPh3)2]+ is formed in solution Formation consts. for the conversion of (P)Rh(R) to (P)Rh(R)(PPh3) were calculated by using electrochem. and spectroscopic methodologies and varied between 1.0 and 4.0 + 103 depending upon the porphyrin macrocycle (OEP or TPP), the specific R group, and the solvent (methylene chloride or benzonitrile). The electroredn. of (P)Rh(R)(PPh3) initially leads to a porphyrin π-anion radical and the transient formation of [(P)Rh(R)(PPh3)]- was spectrally characterized on the thin-layer electrochem. time scale. The formation of a porphyrin π-anion radical is also observed after reduction of [(TPP)Rh(PPhMe2)2]+. This reaction was characterized by thin-layer spectroelectrochem. and provides the 1st example for reduction of a non-σ-bonded Rh(III) porphyrin at the porphyrin π-ring system.

L40 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:413536 CAPLUS
DOCUMENT NUMBER: 109:13536
TITLE: Electrochemical studies of dimeric rhodium(III) porphyrins containing a dibasic nitrogen-heterocyclic bridging ligand
AUTHOR(S): Liu, Y. H.; Anderson, J. E.; Kadish, K. M.
CORPORATE SOURCE: Dep. Chem., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Inorganic Chemistry (1988), 27(13), 2320-5
CODEN: INOCAJ; ISSN: 0020-1669
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The electrochem. and spectroelectrochem. of [(P)RhCl]2L, where P is the dianion of tetraphenylporphyrin (TPP) or octaethylporphyrin (OEP) and L is a conjugated dibasic N-heterocyclic ligand such as 4,4'-bipyridine (bpy), trans-1,2-bis(4-pyridyl)ethylene (BPE) or a nonconjugated N-heterocyclic ligand such as 1,2-bis(4-pyridyl)ethane (BPA) or 4,4'-trimethylenebis(pyridine) (TMDP), are reported. The Rh(III) dimers with BPA or TMDP nonconjugated bridging ligands undergo 1 irreversible metal-centered reduction in THF or methylene chloride. However, 2 overlapping irreversible metal center redns. are observed for Rh(III) dimers that are linked via the conjugated bridging ligands, bpy and BPE. In all cases, [(P)Rh]2 and the free N-heterocyclic ligand are generated as products from 1 or more chemical reactions that follow the metal-centered reduction of
Rh(III)
to Rh(II). Two reversible 2-electron **oxidns.** are observed for [(P)RhCl]2L, where L = BPE, BPA, and TMDP. This behavior contrasts with the case for [(P)RhCl]2bpy, which undergoes a single reversible 2-electron transfer followed by 2 reversible 1-electron **oxidns.** On the basis of the electrochem. and spectroelectrochem. data, an overall mechanism for reduction and **oxidation** of the [(P)RhCl]2 complexes is presented.

L40 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:112169 CAPLUS
DOCUMENT NUMBER: 108:112169
TITLE: Photosensitized hydride transfer. Highly

regioselective 1,4-photoreduction of NAD(P)+ models under visible light with an organometallic rhodium(III) porphyrin as sensitizer

AUTHOR(S): Aoyama, Yasuhiro; Midorikawa, Koji; Toi, Hiroo; Ogoshi, Hisanobu

CORPORATE SOURCE: Dep. Mater. Sci. Technol., Technol. Univ. Nagaoka, Niigata, 940-21, Japan

SOURCE: Chemistry Letters (1987), (8), 1651-4
CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:112169

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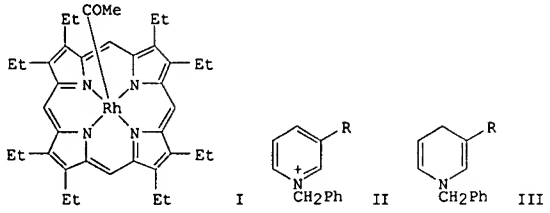

I II III

AB On irradiation with visible light the Rh porphyrin complex I catalyzed the reduction of pyridinium ions II (R = CONH2, Ac) by Ph4B- with Me2CHOH as a proton source to give the 1,4-dihydropyridines III as the sole reduction products and biphenyl as the **oxidation** product of Ph4B-.

L40 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:624874 CAPLUS

DOCUMENT NUMBER: 107:224874

TITLE: Electrochemistry of **rhodium porphyrins**

AUTHOR(S): Yao, Chaoliang

CORPORATE SOURCE: Univ. Houston, Houston, TX, USA

SOURCE: (1987) 275 pp. Avail.: Univ. Microfilms Int., Order No. DA8714775
From: Diss. Abstr. Int. B 1987, 48(4), 1029-30

DOCUMENT TYPE: Dissertation

LANGUAGE: English

AB Unavailable

L40 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:108822 CAPLUS

DOCUMENT NUMBER: 104:108822

TITLE: Catalytic reactions of metalloporphyrins. 1. Catalytic modification of borane reduction of ketone with rhodium(III) porphyrin as catalyst

AUTHOR(S): Aoyama, Yasuhiro; Fujisawa, Takamichi; Toi, Hiroo; Ogoshi, Hisanobu

CORPORATE SOURCE: Dep. Mat. Sci., Technol. Univ. Nagaoka, Niigata, 949-54, Japan

SOURCE: Journal of the American Chemical Society (1986), 108(5), 943-7
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

AB (Octaethyl- or tetraphenylporphyrinato)rhodium(III) chloride shows an efficient catalysis in the aerobic reduction of ketone with NaBH4 in THF. The initial step in the catalytic cycle is the rate-determining complexation of BH4-
with RhIII porphyrin (RhIII + BH4- → RhIII-BH4) followed by a rapid borane transfer from the adduct to ketone to give dialkoxyborane and hydridorhodium species. In the subsequent step, the Rh-H species undergoes **oxidation** with O2 back to RhIII with concomitant hydrolysis of dialkoxyborane to alc. Essentially, autorecycling RhIII and Rh-H act as a borane generator and proton source, resp., in a catalytic manner. Furthermore, the RhIII-BH4 complex capable of transferring borane to ketone lacks what is characteristic of free borane, i.e., facile **oxidation** with O2 and ready hydrolysis with H2O. Thus, the present system provides a highly efficient, catalytic modification of synthetic reactions of borane in the presence of oxygen.

L40 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1984:414298 CAPLUS

DOCUMENT NUMBER: 101:14298

TITLE: Optical absorption and ESR spectra of monomeric rhodium(II) tetraphenylporphyrin in 2-methyltetrahydrofuran solution at 77 K

AUTHOR(S): Hoshino, Mikio; Yasufuku, Katsutoshi; Konishi, Shiro; Imamura, Masashi

CORPORATE SOURCE: Solar Energy Res. Group, Inst. Phys. Chem. Res., Wako, 351, Japan

SOURCE: Inorganic Chemistry (1984), 23(13), 1982-4
CODEN: INOCAJ; ISSN: 0020-1669

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Rh porphyrins have aroused much attention because of the wide variety of their chemical reactions. For instance, Rh porphyrins readily react with the simple mols. H2, O2, and NO to produce hydride, oxygen, and nitric adducts, resp. The Rh atom incorporated in porphyrin ligands is known to have 3 **oxidation** states, +1, +2, and +3. However, monomeric Rh(II) porphyrins have neither been isolated nor detected spectroscopically because of their propensity to facile dimerization. This note reports the optical absorption and ESR spectra of monomeric Rh(II) tetraphenylporphyrin (RhIITPP) produced by photolysis of chloro(tetraphenylporphinato)rhodium(III) (ClRhIIITPP) and dimeric RhIITPP ([RhIITPP2) in 2-methyltetrahydrofuran solns. at 77 K.

L40 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1981:507654 CAPLUS

DOCUMENT NUMBER: 95:107654

TITLE: Dioxygen and nitric oxide complexes of **rhodium porphyrins**

AUTHOR(S): Wayland, Bradford B.; Newman, Alan R.

CORPORATE SOURCE: Dep. Chem., Univ. Pennsylvania, Philadelphia, PA, 19104, USA

SOURCE: Inorganic Chemistry (1981), 20(9), 3093-7
CODEN: INOCAJ; ISSN: 0020-1669

DOCUMENT TYPE: Journal

LANGUAGE: English

AB (RhOEP)2 (H2OEP = octaethylporphine) reacts with O to form RhOEP(O2) (S = 1/2), which subsequently forms the μ-peroxo complex (RhOEP)2O2. EPR studies of RhOEP(O2) and RhTPP(O2) (H2TPP = tetraphenylporphine) and their 1:1 donor complexes are reported and compared with those of the Co analogs. (RhOEP)2, RhOEP(H), and RhOEP(Cl) all react with NO to ultimately produce the same product, RhOEP(NO). The reactions of RhOEP(Cl) and RhTPP(Cl) with NO proceed through a metastable paramagnetic intermediate Rh(por)(Cl)(NO) (por = porphine) which from EPR and electronic spectral studies is formulated as containing a porphyrin π-cation radical unit with an 2Alu ground state. RhOEP(NO)(Cl) assocs. to form a radical dimer (S = 1) with D = 5.17 + 10-3 cm-1, E = 2.4 + 10-4 cm-1, but only monomeric RhTPP(NO)(Cl) is observed Electrochem.

studies of Rh(III) porphyrins also support the porphyrin cation radical formulation for Rh(por)(NO)(Cl) complexes.

L40 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1973:111487 CAPLUS
DOCUMENT NUMBER: 78:111487
TITLE: New rhodium(I)-porphyrin complex. II. Synthesis and oxidative alkylation
AUTHOR(S): Ogoshi, H.; Omura, T.; Yoshida, Z.
CORPORATE SOURCE: Dep. Synth. Chem., Kyoto Univ., Yoshida, Japan
SOURCE: Journal of the American Chemical Society (1973), 95(5), 1666-8
CODEN: JACSAT; ISSN: 0002-7863
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AB Treating N-methyloctaethylporphyrin with di- μ-chlorobis[dicarbonylrhodium (I)] gave a rhodium (I) porphyrin complex containing 1 N-methylporphyrin and one [Rh(CO)2Cl]2 and formulated as [N-methylporphyrin] [Rh(CO)2Cl]2 (I). Spectral data indicate N-H and N-Me bonds on the porphyrin inner core. The 220 MHz NMR spectrum of I shows quite low symmetry for the porphyrin frame. I is oxidized to a mono-Rh(III) porphyrin complex with loss of the N-Me3 bond and methylation of the Rh(III) atom.

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